

AirWatch

Switching zone gas detection



The AirWatch is your turn-key solution for the monitoring of various gases. Based on the measurement values and alarms, equipment is switched on or off, data is logged and employees are remotely informed of the gas concentrations present.

The AirWatch is a non-ATEX detector head with pump, controller, alarm and switch in one device. It can operate switches on a wide variety of equipment in the event of a gas alarm, from generators to breathing air units and power supplies.

The optional wireless function allows several AirWatches to be monitored simultaneously. Data is stored on the PC/laptop or on an optional SD card in the device itself, with real-time information giving a clear picture of the different locations.

Many configurations are possible, so the AirWatch can be used very flexibly, either in standalone mode or as part of a complete system.

Applications

- Turning off generators, power units, welding transformers, breathing air units, pumps, etc.
- Monitoring of confined spaces
- Industrial cleaning
- Water purification
- Petrochemical industry
- Shipyards
- Shutdowns
- Transportation, distribution, offloading
- Container fumigation
- Hospitals
- Construction and earthmoving
- Functions in standalone mode or as part of a mesh network
- Automatically switches pumps, on/off buttons, ventilation, etc.
- Developed for demanding environments
- Can be used inside and outside
- Flexible and programmable
- Available for O₂, LEL, H₂S, CO and SO₂, other gases on request
- Built-in pump
- IP65
- Optional battery pack for 8 days wireless autonomy
- Configurable with alarms, data log, repeater, command centre, uninterrupted power supply (UPS) etc.



AirWatch

Switching zone gas detection Specifications

Dimensions, weight	280 x 165 x 137 mm, 2 kg.
Attachment	Back cover with 2 magnets
Sensors	4 gases, default sensors fitted: O ₂ , LEL, CO and H ₂ S. Other sensors on request
Visible	Green LED for SAFE indication, red LED for ALARM indication. Optional 93 dB alarm bar and sounder
System communication	Stand-alone via type 1 or 2, RS 485 or wireless via 2.4 GHz ISM band, IEEE 802.15.4 standard compliant.
Wireless range	300 metres (line of sight)
Detectors	Supports up to 50 remote detectors
Interface	2 metal operating buttons, LCD text screen with background lighting, language: English
Sampling	Built-in pump, 400-800 ml/min, adjustable flow alarm, sampling up to 50 m
Power supply	9-36V DC, optional UPS for replacement of the supply or switching on the battery pack, delay time max. 60 min.
Potential-free contact	Max. 24V DC, 2A
IP rating	IP65
Temperature and RH	-20°C to 45°C, 0-95% RH, non-condensing
Data logging	Optional, on SD card (4Gb)
Certification	NON-ATEX FCC: QNT-PT2400S20-A CE EN 300320 (RTTE guideline)

Sensor specifications

Sensor	Bereik	Resolutie	Responstijd
Brandbaar gas (LEL)	0- 100% LEL	1% LEL	15 sec
Ammonia (NH ₃)	0-100 ppm	0,5 ppm	60 sec
Koolmonoxide (CO)	0-2.000 ppm	1 ppm	30 sec
Chloride (Cl ₂)	0-20 ppm	0,05 ppm	60 sec
Kooldioxide (CO ₂)	0-5 Vol.%	<2,5Vol.%: 250ppm >2,5Vol.%: 500ppm	< 30 sec
Waterstof (H ₂)	0-2.000 ppm	< 0,7 ppm	< 35 sec
Zoutzuur (HCl)	0-100 ppm	1 ppm	< 300 sec
Blauwzuur (HCN)	0-100 ppm	0,05 ppm	< 70 sec
Waterstofsulfide (H ₂ S)	0-100 ppm	0,1 ppm	30 sec
Zuurstof (O ₂)	0-25 Vol.%	0,1 Vol.%	15 sec
Zwavel dioxide (SO ₂)	0-50 ppm	0,1 ppm	35 sec
Fosfine (NH ₃)	0-10 ppm	0,1 ppm	35 sec



AirWatch connection cable type 1.

Amphenol female 7 pins molex	
Earth	DC negative
1	DC positive 9/36vDC
2	Com
3	NC
4	NO
5	RS-485 A
6	RS-485 B



Cabel & Wiringnumbers	
Y/G	DC negative
1	DC positive 9/36vDC
2	Com
3	NO
4	NC
5	RS-485 A
6	RS-485 B



Amphenol male 6 pins	
A	DC positive 9/36vDC
B	DC negative
C	
D	NO
E	Com
F	NC

AirWatch connection cable type 2.

Amphenol female 7 pins molex	
Earth	DC negative
1	DC positive 9/36vDC
2	Com
3	NC
4	NO
5	RS-485 A
6	RS-485 B



Batteryclamps
Red DC Positive
Black DC Negative



Cabel & Wiringnumbers	
Y/G	DC negative
1	DC positive 9/36vDC
2	Com
3	NO
4	NC
5	RS-485 A
6	RS-485 B



Amphenol female 3 pins	
A	Com
B	NO
C	NC



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